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23. (Amended) A mutant endotoxin made according to the method of claim 22, wherein the mutant endotoxin was purified from the *htrB* mutant pathogen by phenol-water extraction or by protease digestion.

24. The mutant endotoxin according to claim 23, wherein the mutant endotoxin is conjugated to a carrier protein.

25. A mutant endotoxin made according to the method of claim 22.

26. The mutant endotoxin according to claim 25, wherein the mutant endotoxin is conjugated to a carrier protein.

Sub. E32
D2
29. (Amended) A method for producing endotoxin-specific antisera [for use in diagnostic assays], the method comprising

- (a) immunizing an individual with a vaccine formulation comprising [as an active ingredient] an *htrB* mutant of a gram-negative bacterial pathogen, endotoxin isolated from the *htrB* mutant of the gram-negative bacterial pathogen, [and] or endotoxin [isolated] purified from the *htrB* mutant of the gram-negative bacterial pathogen wherein the endotoxin is conjugated to a carrier protein; and
- (b) collecting antibody produced from the immunized individual;

wherein the *htrB* mutant lacks one or more secondary acyl chains of lipid A contained in [the] a wild type gram-negative bacterial pathogen resulting in substantially reduced toxicity when compared to lipid A of the wild type gram-negative bacterial pathogen.

Please add the following new claims 44 and 45:

EP6 32
D3
44. (New) The method of claim 22 ~~wherein the gram-negative bacterial pathogen is of the~~ genera *Haemophilus*, *Neisseria*, *Moraxella*, *Campylobacter*, *Shigella* or *Pseudomonas*.
Sub. E4
Amended